

01997026700.ST25
SEQUENCE LISTING

<110> Liu, Wei
Wu, Leeying
Channavajhala, Padma L,
Lin, Lih-Ling
Zhang, Yuhua

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<150> US 60/457,928

<151> 2003-03-28

<150> US 60/491,283

<151> 2003-07-31

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<212> PRT
<213> Homo sapiens

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35 40 45

Asp Ile Ser Ile Gly Ser Leu Arg Gly Leu Arg Thr Lys Cys Ala Val
50 55 60

Ser Asn Asp Leu Thr Gln Gln Glu Ile Arg Thr Leu Glu Ala Lys Leu
65 70 75 80

Val Arg Tyr Ile Cys Lys Gln Arg Gln Cys Lys Leu Ser Val Ala Pro
85 90 95

Gly Glu Arg Thr Pro Glu Leu Asn Ser Tyr Pro Arg Phe Ser Asp Trp
100 105 110

Leu Tyr Thr Phe Asn Val Arg Pro Glu Val Val Gln Glu Ile Pro Arg
115 120 125

Asp Leu Thr Leu Asp Ala Leu Leu Glu Met Asn Glu Ala Lys Val Lys
130 135 140

Glu Thr Leu Arg Arg Cys Gly Ala Ser Gly Asp Glu Cys Gly Arg Leu
145 150 155 160

Gln Tyr Ala Leu Thr Cys Leu Arg Lys Val Thr Gly Leu Gly Gly Glu
165 170 175

His Lys Glu Asp Ser Ser Trp Ser Ser Leu Asp Ala Arg Arg Glu Ser
180 185 190

Gly Ser Gly Pro Ser Thr Asp Thr Leu Ser Ala Ala Ser Leu Pro Trp
195 200 205

Pro Pro Gly Ser Ser Gln Leu Gly Arg Ala Gly Asn Ser Ala Gln Gly
210 215 220

Pro Arg Ser Ile Ser Val Ser Ala Leu Pro Ala Ser Asp Ser Pro Thr
225 230 235 240

Pro Ser Phe Ser Glu Gly Leu Ser Asp Thr Cys Ile Pro Leu His Ala
245 250 255

Ser Gly Arg Leu Thr Pro Arg Ala Leu His Ser Phe Ile Thr Pro Pro
260 265 270

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Thr Thr Pro Gln Leu Arg Arg His Thr Lys Leu Lys Pro Pro Arg Thr
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 Pro Pro Pro Pro Ser Arg Lys Val Phe Gln Leu Leu Pro Ser Phe Pro
 290 295 300
 Thr Leu Thr Arg Ser Lys Ser His Glu Ser Gln Leu Gly Asn Arg Ile
 305 310 315 320
 Asp Asp Val Ser Ser Met Arg Phe Asp Leu Ser His Gly Ser Pro Gln
 325 330 335
 Met Val Arg Arg Asp Ile Gly Leu Ser Val Thr His Arg Phe Ser Thr
 340 345 350
 Lys Ser Trp Leu Ser Gln Val Cys His Val Cys Gln Lys Ser Met Ile
 355 360 365
 Phe Gly Val Lys Cys Lys His Cys Arg Leu Lys Cys His Asn Lys Cys
 370 375 380
 Thr Lys Glu Ala Pro Ala Cys Arg Ile Ser Phe Leu Pro Leu Thr Arg
 385 390 395 400
 Leu Arg Arg Thr Glu Ser Val Pro Ser Asp Ile Asn Asn Pro Val Asp
 405 410 415
 Arg Ala Ala Glu Pro His Phe Gly Thr Leu Pro Lys Ala Leu Thr Lys
 420 425 430
 Lys Glu His Pro Pro Ala Met Asn His Leu Asp Ser Ser Ser Asn Pro
 435 440 445
 Ser Ser Thr Thr Ser Ser Thr Pro Ser Ser Pro Ala Pro Phe Pro Thr
 450 455 460
 Ser Ser Asn Pro Ser Ser Ala Thr Thr Pro Pro Asn Pro Ser Pro Gly
 465 470 475 480
 Gln Arg Asp Ser Arg Phe Asn Phe Pro Ala Ala Tyr Phe Ile His His
 485 490 495
 Arg Gln Gln Phe Ile Phe Pro Asp Ile Ser Ala Phe Ala His Ala Ala
 500 505 510
 Pro Leu Pro Glu Ala Ala Asp Gly Thr Arg Leu Asp Asp Gln Pro Lys
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515

520

Ala Asp Val Leu Glu Ala His Glu Ala Glu Ala Glu Glu Pro Glu Ala
530 535 540

Gly Lys Ser Glu Ala Glu Asp Asp Glu Asp Glu Val Asp Asp Leu Pro
545 550 555 560

Ser Ser Arg Arg Pro Trp Arg Gly Pro Ile Ser Arg Lys Ala Ser Gln
565 570 575

Thr Ser Val Tyr Leu Gln Glu Trp Asp Ile Pro Phe Glu Gln Val Glu
580 585 590

Leu Gly Glu Pro Ile Gly Gln Gly Arg Trp Gly Arg Val His Arg Gly
595 600 605

Arg Trp His Gly Glu Val Ala Ile Arg Leu Leu Glu Met Asp Gly His
610 615 620

Asn Gln Asp His Leu Lys Leu Phe Lys Lys Glu Val Met Asn Tyr Arg
625 630 635 640

Gln Thr Arg His Glu Asn Val Val Leu Phe Met Gly Ala Cys Met Asn
645 650 655

Pro Pro His Leu Ala Ile Ile Thr Ser Phe Cys Lys Gly Arg Thr Leu
660 665 670

His Ser Phe Val Arg Asp Pro Lys Thr Ser Leu Asp Ile Asn Lys Thr
675 680 685

Arg Gln Ile Ala Gln Glu Ile Ile Lys Gly Met Gly Tyr Leu His Ala
690 695 700

Lys Gly Ile Val His Lys Asp Leu Lys Ser Lys Asn Val Phe Tyr Asp
705 710 715 720

Asn Gly Lys Val Val Ile Thr Asp Phe Gly Leu Phe Gly Ile Ser Gly
725 730 735

Val Val Arg Glu Gly Arg Arg Glu Asn Gln Leu Lys Leu Ser His Asp
740 745 750

Trp Leu Cys Tyr Leu Ala Pro Glu Ile Val Arg Glu Met Thr Pro Gly
755 760 765

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Lys Asp Glu Asp Gln Leu Pro Phe Ser Lys Ala Ala Asp Val Tyr Ala
770 775 780

Phe Gly Thr Val Trp Tyr Glu Leu Gln Ala Arg Asp Trp Pro Leu Lys
785 790 795 800

Asn Gln Ala Ala Glu Ala Ser Ile Trp Gln Ile Gly Ser Gly Glu Gly
805 810 815

Met Lys Arg Val Leu Thr Ser Val Ser Leu Gly Lys Glu Val Ser Glu
820 825 830

Ile Leu Ser Ala Cys Trp Ala Phe Asp Leu Gln Glu Arg Pro Ser Phe
835 840 845

Ser Leu Leu Met Asp Met Leu Glu Lys Leu Pro Lys Leu Asn Arg Arg
850 855 860

Leu Ser His Pro Gly His Phe Trp Lys Ser Ala Asp Ile Asn Ser Ser
865 870 875 880

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Ser Asn Pro Lys Met
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<212> PRT
<213> Homo sapiens

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20 25 30

Pro Gln Leu Arg Arg His Thr Lys Leu Lys Pro Pro Arg Thr Pro Pro
35 40 45

Pro Pro Ser Arg Lys Val Phe Gln Leu Leu Pro Ser Phe Pro Thr Leu
50 55 60

Thr Arg Ser Lys Ser His Glu Ser Gln Leu Gly Asn Arg Ile Asp Asp
65 70 75 80

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Val Ser Ser Met Arg Phe Asp Leu Ser His Gly Ser Pro Gln Met Val
 85 90 95
 Arg Arg Asp Ile Gly Leu Ser Val Thr His Arg Phe Ser Thr Lys Ser
 100 105 110
 Trp Leu Ser Gln Val Cys His Val Cys Gln Lys Ser Met Ile Phe Gly
 115 120 125
 Val Lys Cys Lys His Cys Arg Leu Lys Cys His Asn Lys Cys Thr Lys
 130 135 140
 Glu Ala Pro Ala Cys Arg Ile Ser Phe Leu Pro Leu Thr Arg Leu Arg
 145 150 155 160
 Arg Thr Glu Ser Val Pro Ser Asp Ile Asn Asn Pro Val Asp Arg Ala
 165 170 175
 Ala Glu Pro His Phe Gly Thr Leu Pro Lys Ala Leu Thr Lys Lys Glu
 180 185 190
 His Pro Pro Ala Met Asn His Leu Asp Ser Ser Ser Asn Pro Ser Ser
 195 200 205
 Thr Thr Ser Ser Thr Pro Ser Ser Pro Ala Pro Phe Pro Thr Ser Ser
 210 215 220
 Asn Pro Ser Ser Ala Thr Thr Pro Pro Asn Pro Ser Pro Gly Gln Arg
 225 230 235 240
 Asp Ser Arg Phe Asn Phe Pro Ala Ala Tyr Phe Ile His His Arg Gln
 245 250 255
 Gln Phe Ile Phe Pro Asp Ile Ser Ala Phe Ala His Ala Ala Pro Leu
 260 265 270
 Pro Glu Ala Ala Asp Gly Thr Arg Leu Asp Asp Gln Pro Lys Ala Asp
 275 280 285
 Val Leu Glu Ala His Glu Ala Glu Ala Glu Glu Pro Glu Ala Gly Lys
 290 295 300
 Ser Glu Ala Glu Asp Asp Glu Asp Glu Val Asp Asp Leu Pro Ser Ser
 305 310 315 320
 Arg Arg Pro Trp Arg Gly Pro Ile Ser Arg Lys Ala Ser Gln Thr Ser
 325 330 335

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Val Tyr Leu Gln Glu Trp Asp Ile Pro Phe Glu Gln Val Glu Leu Gly
 340 345 350
 Glu Pro Ile Gly Gln Gly Arg Trp Gly Arg Val His Arg Gly Arg Trp
 355 360 365
 His Gly Glu Val Ala Ile Arg Leu Leu Glu Met Asp Gly His Asn Gln
 370 375 380
 Asp His Leu Lys Leu Phe Lys Lys Glu Val Met Asn Tyr Arg Gln Thr
 385 390 395 400
 Arg His Glu Asn Val Val Leu Phe Met Gly Ala Cys Met Asn Pro Pro
 405 410 415
 His Leu Ala Ile Ile Thr Ser Phe Cys Lys Gly Arg Thr Leu His Ser
 420 425 430
 Phe Val Arg Asp Pro Lys Thr Ser Leu Asp Ile Asn Lys Thr Arg Gln
 435 440 445
 Ile Ala Gln Glu Ile Ile Lys Gly Met Gly Tyr Leu His Ala Lys Gly
 450 455 460
 Ile Val His Lys Asp Leu Lys Ser Lys Asn Val Phe Tyr Asp Asn Gly
 465 470 475 480
 Lys Val Val Ile Thr Asp Phe Gly Leu Phe Gly Ile Ser Gly Val Val
 485 490 495
 Arg Glu Gly Arg Arg Glu Asn Gln Leu Lys Leu Ser His Asp Trp Leu
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 Cys Tyr Leu Ala Pro Glu Ile Val Arg Glu Met Thr Pro Gly Lys Asp
 515 520 525
 Glu Asp Gln Leu Pro Phe Ser Lys Ala Ala Asp Val Tyr Ala Phe Gly
 530 535 540
 Thr Val Trp Tyr Glu Leu Gln Ala Arg Asp Trp Pro Leu Lys Asn Gln
 545 550 555 560
 Ala Ala Glu Ala Ser Ile Trp Gln Ile Gly Ser Gly Glu Gly Met Lys
 565 570 575
 Arg Val Leu Thr Ser Val Ser Leu Gly Lys Glu Val Ser Glu Ile Leu
 580 585 590

Ser Ala Cys Trp Ala Phe Asp Leu Gln Glu Arg Pro Ser Phe Ser Leu
595 600 605

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610 615 620

His Pro Gly His Phe Trp Lys Ser Ala Glu Leu
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<212> PRT
<213> Mus musculus

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Ser Arg Ala Leu Gln Gln Cys Gly Gln Leu Gln Lys Leu Ile Asp Ile
35 40 45

Ser Ile Gly Ser Leu Arg Gly Leu Arg Thr Lys Cys Ser Val Ser Asn
50 55 60

Asp Leu Thr Gln Gln Glu Ile Arg Thr Leu Glu Ala Lys Leu Val Lys
65 70 75 80

Tyr Ile Cys Lys Gln Gln Gln Ser Lys Leu Ser Val Thr Pro Ser Asp
85 90 95

Arg Thr Ala Glu Leu Asn Ser Tyr Pro Arg Phe Ser Asp Trp Leu Tyr
100 105 110

Ile Phe Asn Val Arg Pro Glu Val Val Gln Glu Ile Pro Gln Glu Leu
115 120 125

Thr Leu Asp Ala Leu Leu Glu Met Asp Glu Ala Lys Ala Lys Glu Met
130 135 140

Leu Arg Arg Trp Gly Ala Ser Thr Glu Glu Cys Ser Arg Leu Gln Gln
145 150 155 160

Ala Leu Thr Cys Leu Arg Lys Val Thr Gly Leu Gly Gly Glu His Lys
165 170 175

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Met Asp Ser Gly Trp Ser Ser Thr Asp Ala Arg Asp Ser Ser Leu Gly
180 185 190

Pro Pro Met Asp Met Leu Ser Ser Leu Gly Arg Ala Gly Ala Ser Thr
195 200 205

Gln Gly Pro Arg Ser Ile Ser Val Ser Ala Leu Pro Ala Ser Asp Ser
210 215 220

Pro Val Pro Gly Leu Ser Glu Gly Leu Ser Asp Ser Cys Ile Pro Leu
225 230 235 240

His Thr Ser Gly Arg Leu Thr Pro Arg Ala Leu His Ser Phe Ile Thr
245 250 255

Pro Pro Thr Thr Pro Gln Leu Arg Arg His Ala Lys Leu Lys Pro Pro
260 265 270

Arg Thr Pro Pro Pro Pro Ser Arg Lys Val Phe Gln Leu Leu Pro Ser
275 280 285

Phe Pro Thr Leu Thr Arg Ser Lys Ser His Glu Ser Gln Leu Gly Asn
290 295 300

Arg Ile Asp Asp Val Thr Pro Met Lys Phe Glu Leu Pro His Gly Ser
305 310 315 320

Pro Gln Leu Val Arg Arg Asp Ile Gly Leu Ser Val Thr His Arg Phe
325 330 335

Ser Thr Lys Ser Trp Leu Ser Gln Val Cys Asn Val Cys Gln Lys Ser
340 345 350

Met Ile Phe Gly Val Lys Cys Lys His Cys Arg Leu Lys Cys His Asn
355 360 365

Lys Cys Thr Lys Glu Ala Pro Ala Cys Arg Ile Thr Phe Leu Pro Leu
370 375 380

Ala Arg Leu Arg Arg Thr Glu Ser Val Pro Ser Asp Ile Asn Asn Pro
385 390 395 400

Val Asp Arg Ala Ala Glu Pro His Phe Gly Thr Leu Pro Lys Ala Leu
405 410 415

Thr Lys Lys Glu His Pro Pro Ala Met Asn Leu Asp Ser Ser Ser Asn
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420

425

430

Pro Ser Ser Thr Thr Ser Ser Thr Pro Ser Ser Pro Ala Pro Phe Leu
 435 440 445

Thr Ser Ser Asn Pro Ser Ser Ala Thr Thr Pro Pro Asn Pro Ser Pro
 450 455 460

Gly Gln Arg Asp Ser Arg Phe Ser Phe Pro Asp Ile Ser Ala Cys Ser
 465 470 475 480

Gln Ala Ala Pro Leu Ser Ser Thr Ala Asp Ser Thr Arg Leu Asp Asp
 485 490 495

Gln Pro Lys Thr Asp Val Leu Gly Val His Glu Ala Glu Ala Glu Glu
 500 505 510

Pro Glu Ala Gly Lys Ser Glu Ala Glu Asp Asp Glu Glu Asp Glu Val
 515 520 525

Asp Asp Leu Pro Ser Ser Arg Arg Pro Trp Arg Gly Pro Ile Ser Arg
 530 535 540

Lys Ala Ser Gln Thr Ser Val Tyr Leu Gln Glu Trp Asp Ile Pro Phe
 545 550 555 560

Glu Gln Val Glu Leu Gly Glu Pro Ile Gly Gln Gly Arg Trp Gly Arg
 565 570 575

Val His Arg Gly Arg Trp His Gly Glu Val Ala Ile Arg Leu Leu Glu
 580 585 590

Met Asp Gly His Asn Gln Asp His Leu Lys Leu Phe Lys Lys Glu Val
 595 600 605

Met Asn Tyr Arg Gln Thr Arg His Glu Asn Val Val Leu Phe Met Gly
 610 615 620

Ala Cys Met Asn Pro Pro His Leu Ala Ile Ile Thr Ser Phe Cys Lys
 625 630 635 640

Gly Arg Thr Leu His Ser Phe Val Arg Asp Pro Lys Thr Ser Leu Asp
 645 650 655

Ile Asn Lys Thr Arg Gln Ile Ala Gln Glu Ile Ile Lys Gly Met Gly
 660 665 670

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Tyr Leu His Ala Lys Gly Ile Val His Lys Asp Leu Lys Ser Lys Asn
675 680 685

Val Phe Tyr Asp Asn Gly Lys Val Val Ile Thr Asp Phe Gly Leu Phe
690 695 700

Gly Ile Ser Gly Val Val Arg Glu Glu Arg Arg Glu Asn Gln Leu Lys
705 710 715 720

Leu Ser His Asp Trp Leu Cys Tyr Leu Ala Pro Glu Ile Val Arg Glu
725 730 735

Met Ile Pro Gly Arg Asp Glu Asp Gln Leu Pro Phe Ser Lys Ala Ala
740 745 750

Asp Val Tyr Ala Phe Gly Thr Val Trp Tyr Glu Leu Gln Ala Arg Asp
755 760 765

Trp Pro Phe Lys His Gln Pro Ala Glu Ala Leu Ile Trp Gln Ile Gly
770 775 780

Ser Gly Glu Gly Val Arg Arg Val Leu Ala Ser Val Ser Leu Gly Lys
785 790 795 800

Glu Val Gly Glu Ile Leu Ser Ala Cys Trp Ala Phe Asp Leu Gln Glu
805 810 815

Arg Pro Ser Phe Ser Leu Leu Met Asp Met Leu Glu Arg Leu Pro Lys
820 825 830

Leu Asn Arg Arg Leu Ser His Pro Gly His Phe Trp Lys Ser Ala Asp
835 840 845

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Leu Val Ile Ile Gln Asp Met Ile Asp Leu Ser Ala Asn His Leu Glu
35 40 45

Gly Leu Arg Thr Gln Cys Ala Ile Ser Ser Thr Leu Thr Gln Gln Glu
50 55 60

Ile Arg Cys Leu Glu Ser Lys Leu Val Arg Tyr Phe Ser Glu Leu Leu
65 70 75 80

Leu Ala Lys Met Arg Leu Asn Glu Arg Ile Pro Ala Asn Gly Leu Val
85 90 95

Pro His Thr Thr Gly Asn Glu Leu Arg Gln Trp Leu Arg Val Val Gly
100 105 110

Leu Ser Gln Gly Thr Leu Thr Ala Cys Leu Ala Arg Leu Thr Thr Leu
115 120 125

Glu Gln Ser Leu Arg Leu Ser Asp Glu Glu Ile Arg Gln Leu Leu Ala
130 135 140

Asp Ser Pro Ser Gln Arg Glu Glu Glu Glu Leu Arg Arg Leu Thr Arg
145 150 155 160

Ala Met Gln Asn Leu Arg Lys Cys Met Glu Ser Leu Glu Ser Gly Thr
165 170 175

Ala Ala Ser Asn Asn Asp Pro Glu Gln Trp His Trp Asp Ser Trp Asp
180 185 190

Arg Pro Thr His Ile His Arg Gly Ser Val Gly Asn Ile Gly Leu Gly
195 200 205

Asn Asn Ser Thr Ala Ser Pro Arg Thr His His Arg Gln His Gly Val
210 215 220

Lys Gly Lys Asn Ser Ala Leu Ala Asn Ser Thr Asn Phe Lys Ser Gly
225 230 235 240

Arg Gln Ser Pro Ser Ala Thr Glu Glu Leu Asn Ser Thr Gln Gly Ser
245 250 255

Gln Leu Thr Leu Thr Leu Thr Pro Ser Pro Pro Asn Ser Pro Phe Thr
260 265 270

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Pro Ser Ser Gly Leu Ser Ser Ser Leu Asn Gly Thr Pro Gln Arg Ser
 275 280 285
 Arg Gly Thr Pro Pro Pro Ala Arg Lys His Gln Thr Leu Leu Ser Gln
 290 295 300
 Ser His Val Gln Val Asp Gly Glu Gln Leu Ala Arg Asn Arg Leu Pro
 305 310 315 320
 Thr Asp Pro Ser Pro Asp Ser His Ser Ser Thr Ser Ser Asp Ile Phe
 325 330 335
 Val Asp Pro Asn Thr Asn Ala Ser Ser Gly Gly Ser Ser Ser Asn Val
 340 345 350
 Leu Met Val Pro Cys Ser Pro Gly Val Gly His Val Gly Met Gly His
 355 360 365
 Ala Ile Lys His Arg Phe Thr Lys Ala Leu Gly Phe Met Ala Thr Cys
 370 375 380
 Thr Leu Cys Gln Lys Gln Val Phe His Arg Trp Met Lys Cys Thr Asp
 385 390 395 400
 Cys Lys Tyr Ile Cys His Lys Ser Cys Ala Pro His Val Pro Pro Ser
 405 410 415
 Cys Gly Leu Pro Arg Glu Tyr Val Asp Glu Phe Arg His Ile Lys Glu
 420 425 430
 Gln Gly Gly Tyr Ala Ser Leu Pro His Val His Gly Ala Ala Lys Gly
 435 440 445
 Ser Pro Leu Val Lys Lys Ser Thr Leu Gly Lys Pro Leu His Gln Gln
 450 455 460
 His Gly Asp Ser Ser Ser Pro Ser Ser Ser Cys Thr Ser Ser Thr Pro
 465 470 475 480
 Ser Ser Pro Ala Leu Phe Gln Gln Arg Glu Arg Glu Leu Asp Gln Ala
 485 490 495
 Gly Ser Ser Ser Ser Ala Asn Leu Leu Pro Thr Pro Ser Leu Gly Lys
 500 505 510
 His Gln Pro Ser Gln Phe Asn Phe Pro Asn Val Thr Val Thr Ser Ser
 515 520 525

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Gly Gly Ser Gly Gly Val Ser Leu Ile Ser Asn Glu Pro Val Pro Glu
530 535 540

Gln Phe Pro Thr Ala Pro Ala Thr Ala Asn Gly Gly Leu Asp Ser Leu
545 550 555 560

Val Ser Ser Ser Asn Gly His Met Ser Ser Leu Ile Gly Ser Gln Thr
565 570 575

Ser Asn Ala Ser Thr Ala Ala Thr Leu Thr Gly Ser Leu Val Asn Ser
580 585 590

Thr Thr Thr Thr Ser Thr Cys Ser Phe Phe Pro Arg Lys Leu Ser Thr
595 600 605

Ala Gly Val Asp Lys Arg Thr Pro Phe Thr Ser Glu Tyr Thr Asp Thr
610 615 620

His Lys Ser Asn Asp Ser Asp Lys Thr Val Ser Leu Ser Gly Ser Ala
625 630 635 640

Ser Thr Asp Ser Asp Arg Thr Pro Val Arg Val Asp Ser Thr Glu Asp
645 650 655

Gly Asp Ser Gly Gln Trp Arg Gln Asn Ser Ile Ser Leu Lys Glu Trp
660 665 670

Asp Ile Pro Tyr Gly Asp Leu Leu Leu Leu Glu Arg Ile Gly Gln Gly
675 680 685

Arg Phe Gly Thr Val His Arg Ala Leu Trp His Gly Asp Val Ala Val
690 695 700

Lys Leu Leu Asn Glu Asp Tyr Leu Gln Asp Glu His Met Leu Glu Thr
705 710 715 720

Phe Arg Ser Glu Val Ala Asn Phe Lys Asn Thr Arg His Glu Asn Leu
725 730 735

Val Leu Phe Met Gly Ala Cys Met Asn Pro Pro Tyr Leu Ala Ile Val
740 745 750

Thr Ser Leu Cys Lys Gly Asn Thr Leu Tyr Thr Tyr Ile His Gln Arg
755 760 765

Arg Glu Lys Phe Ala Met Asn Arg Thr Leu Leu Ile Ala Gln Gln Ile
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770

775

780

Ala Gln Gly Met Gly Tyr Leu His Ala Arg Glu Ile Ile His Lys Asp
 785 790 795 800

Leu Arg Thr Lys Asn Ile Phe Ile Glu Asn Gly Lys Val Ile Ile Thr
 805 810 815

Asp Phe Gly Leu Phe Ser Ser Thr Lys Leu Leu Tyr Cys Asp Met Gly
 820 825 830

Leu Gly Val Pro His Asn Trp Leu Cys Tyr Leu Ala Pro Glu Leu Ile
 835 840 845

Arg Ala Leu Gln Pro Glu Lys Pro Arg Gly Glu Cys Leu Glu Phe Thr
 850 855 860

Pro Tyr Ser Asp Val Tyr Ser Phe Gly Thr Val Trp Tyr Glu Leu Ile
 865 870 875 880

Cys Gly Glu Phe Thr Phe Lys Asp Gln Pro Ala Glu Ser Ile Ile Trp
 885 890 895

Gln Val Gly Arg Gly Met Lys Gln Ser Leu Ala Asn Leu Gln Ser Gly
 900 905 910

Arg Asp Val Lys Asp Leu Leu Met Leu Cys Trp Thr Tyr Glu Lys Glu
 915 920 925

His Arg Pro Gln Phe Ala Arg Leu Leu Ser Leu Leu Glu His Leu Pro
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Lys Lys Arg Leu Ala Arg Ser Pro Ser His Pro Val Asn Leu Ser Arg
 945 950 955 960

Ser Ala Glu Ser Val Phe
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 <212> PRT
 <213> Caenorhabditis elegans

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Gln Phe Gly Ala Gly Ile Ala Gln Asp Ile Lys Thr Gln Ala Ile Asn
 Page 420

20

25

30

Asn Leu Lys₃₅ Glu Cys Leu Lys₄₀ Leu Thr Thr Ile Asn₄₅ Arg Phe Leu Thr
 Ser₅₀ Ser Tyr Glu Glu Asp₅₅ Ala Lys Ser Val Glu₆₀ Arg Lys Ile Phe Ser
 Ala₆₅ Val Tyr Gln Met₇₀ Thr Lys Ile Gly Leu₇₅ Ile Asp Arg Glu Lys₈₀ Arg
 Glu Ile Asn Ala₈₅ Ile Trp Phe Thr Phe₉₀ Val Gly Leu Ser Ala₉₅ Gln Asn
 Ile Arg His₁₀₀ Leu Glu Ile Cys Ser₁₀₅ Ile Thr Asp Phe Asn₁₁₀ Ala Leu Phe
 Ser Ile Thr₁₁₅ Asn Gln Glu Leu Arg₁₂₀ Ser Leu Ala Asp₁₂₅ Arg Gly Arg Leu
 Asp₁₃₀ Val Glu Thr Lys Arg₁₃₅ Lys Leu Leu Gln Ser₁₄₀ Thr Val Ile Leu Gln
 Asn₁₄₅ His Trp Asn Ala₁₅₀ Tyr His Ser Arg Thr₁₅₅ Ser Ser Gly Ser Thr₁₆₀ Asp
 Glu Pro Ser Gly₁₆₅ Gln Ser Thr Pro Ala₁₇₀ Ile Val Thr Pro Ser₁₇₅ Pro Lys
 Phe Asn Val₁₈₀ Pro Ser Leu Ser Val₁₈₅ Thr Ser Ala Lys Met₁₉₀ Ile Gln Ser
 Ser Ser₁₉₅ Met Gly Phe Ala Thr₂₀₀ Pro Lys Ser Pro₂₀₅ Lys Thr Ser Ser
 Arg₂₁₀ Leu Val His Ala₂₁₅ Ile Pro His Lys Trp His₂₂₀ Arg Ser Thr Lys Phe
 Arg₂₂₅ Phe Ser Gly Asp₂₃₀ Ala Val Cys His Phe₂₃₅ Cys Gln Arg Pro Leu Gly₂₄₀
 Phe Gly Phe Leu₂₄₅ Asn Ala Trp Glu Lys₂₅₀ Cys Arg Ser Cys Lys₂₅₅ Trp Lys
 Val His Thr₂₆₀ Gln Cys Lys Gly Arg Val₂₆₅ Gly Asp Ser Cys₂₇₀ Gly Leu Thr

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Pro Asp His Leu Arg Phe Leu Phe Asp Lys Leu Ile Gln Glu Asn Asn
275 280 285

Gly Gly Met Trp Lys Asp Pro Gln Ser Val Pro Gly Ser Arg Ser Met
290 295 300

Asn Glu Pro Ala Phe Gln Phe Pro Asp Thr Ala Ile Asp Ser Ser Ser
305 310 315 320

Ser Thr Asn Ser Ser Ala Pro Ser Thr Pro Ala Leu Pro Ala Gly Ile
325 330 335

Ser Gly Asn Val Ser Ser Leu Thr Ala Pro Tyr Arg Ser Glu Arg Lys
340 345 350

Phe Leu Phe Pro Asp Thr Glu Asn Tyr Ser Val His Asn Arg Leu Pro
355 360 365

Ile Leu Val Ile Ser Glu Gly Asp His Pro Thr Thr Thr Glu Ile Gln
370 375 380

Gln Glu Thr Glu Asn His Asn Lys Ser Ala Ala Ala Ser Met Ser Gly
385 390 395 400

Asn Ile Glu Ser Glu Gly Thr Ile Val Ala Asn His Glu Asp Ser Thr
405 410 415

Gly Ser Gln Glu Val Asp Ser Glu Ala Ala Pro Ser Gln Glu Ala Val
420 425 430

Asp Lys Phe Asn Lys Arg Ala Asp Gly Gly Phe Thr Trp Glu Arg His
435 440 445

Ala Trp Asn Met Ser Thr Ile Arg Gly Pro Asn Ala Gln Ala Ser Trp
450 455 460

Asn Glu Val Thr Ile Gln Phe Glu Thr Ile Glu Phe Asp Lys Gln Ala
465 470 475 480

Pro Ile Ile Gly Arg Gly Arg Phe Gly Lys Val Leu Arg Gly Phe His
485 490 495

Tyr Gly Asp Val Ala Val Lys Val Tyr Thr Met Glu His Ile Ser Asp
500 505 510

Ala Ser Lys Lys Ala Glu Glu Phe Lys Leu Glu Val Ser Ala Tyr Lys
515 520 525

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Asn Thr Arg His Asp Asn Ile Ala Leu Phe Leu Gly Tyr Phe Met Ser
 530 535 540
 Asp Gly Gln Tyr Gly Met Val Met Ser Leu Ser Lys Gly Ser Gln Ser
 545 550 555 560
 Leu Tyr Thr Leu Leu His Val Val Arg Glu Lys Leu Asp Leu Ala Thr
 565 570 575
 Thr Arg Lys Ile Ala Gln Gln Ile Cys Gln Ala Val Ser Tyr Leu His
 580 585 590
 Thr Lys Lys Ile Leu His Lys Asp Leu Arg Ser Lys Asn Ile Leu Leu
 595 600 605
 Glu Ser Lys Asn Lys Val Val Ile Thr Asp Phe Gly Ile Leu Ser Met
 610 615 620
 Lys Arg Leu Ala His Pro Lys Gln Lys Ser Gly Tyr Leu Thr Ser Lys
 625 630 635 640
 Phe Trp Thr Asn Tyr Ile Ala Pro Glu Leu Ala Met Ala Met Arg Thr
 645 650 655
 Glu Tyr Asp Glu Tyr Glu Cys Asp Asp Phe Pro Phe Ser Glu Asn Ser
 660 665 670
 Asp Val Tyr Ala Phe Gly Cys Val Trp Phe Glu Met Leu Thr Gly Ala
 675 680 685
 Leu Pro Tyr Ala Gly Glu Leu Pro His Gln Ile Leu Phe Ala Lys Thr
 690 695 700
 Gln Gly Ile Arg Pro Val Leu Pro Asn Val Lys Cys Thr Gln Glu Leu
 705 710 715 720
 Lys Glu Leu Leu Val Ser Cys Trp Asn Thr Ala Pro Gln Asp Arg Pro
 725 730 735
 Thr Leu Thr Asp Ile Asn Leu Lys Leu Thr Ala Leu Pro Lys Lys Pro
 740 745 750
 Arg Val Asn Arg Ser Pro Ser Phe Pro Val Met Met Lys Ser Tyr Glu
 755 760 765
 Ser Thr Phe
 770